# Preface

Thank you for purchasing this camera. This camera will help you fulfill all your digital picture processing needs.

The camera is equipped with eight modes ( Auto Mode, P/A/S/M Mode, Continuous Shot Mode,Scene Mode, Movie Mode, Audio Mode, Setup Mode and Power Off ) for your exploration. In combination with all the above modes function, not only will this camera serve as a digital camera, but it can also be used in recording short movie and audio recording.

This versatile, neat design camera offers 5.36 mega pixels high-quality image along with precise 12 x zoom (3 x optical plus 4 x digital). The built-in 16MB internal memory can store your images, video clip and audio files. Its auto focus lens supports a macro mode from 10cm to 50cm. Normally, it can take the pictures from 50cm to infinite range. Through the USB cable connection, pictures can be easily transmitted from the camera to the PC. It also pro-vides a TV-out function to perform the operatation through TV.

To make the best out of this camera, we strongly suggest that you read through this manual prior to operating this camera.

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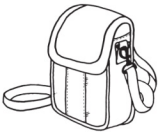
# Setup

Setting up this digital camera is quick and simple. Follow these steps, and you'll be on your way to infinite boundaries.

## Unpacking the Camera

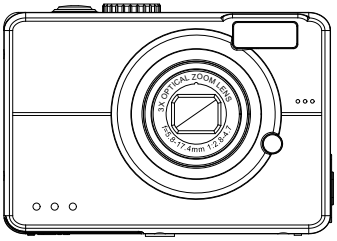
1. Clear all items from the box. (It is highly recommended that the box and wrappings are kept for future usage)
2. Double check for the following items:

CD-ROM



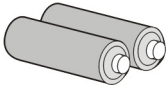
Pouch

Mini USB cable

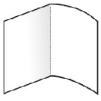



Camera

Video cable



Batteries

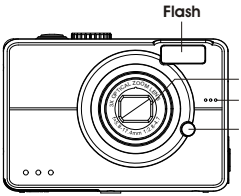


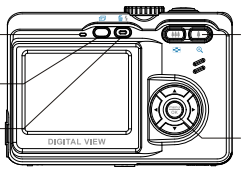
Quick Guide

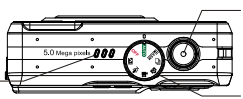
Strap

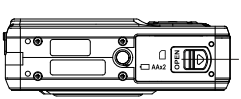
Hand strap

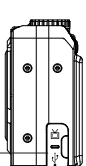
# Camera Parts



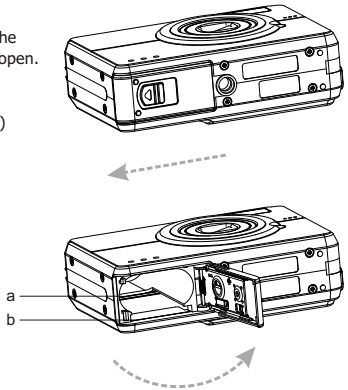



# Loading the Batteries and SD Card

This camera uses 2 AA batteries. The batteries and SD card share the same compartment and door.

1. Slide the battery/SD card door in the direction of the arrow, then lift to open.
2. Load the included batteries into the battery compartment. (a)
3. Insert the SD card into the slot. (b)
4. Close the battery/SD card door.




**CAUTION!**

1. Use only the specified battery for use with this camera. Other power sources may cause fire.
2. To improve battery performance, replace all installed batteries at the same time and keep batter way from heat.
3. To dispose off batteries, please refer to index of battery manufacturer.
4. Do not mix battery types or it may cause a fire or explosion. Use only one battery type at one time
5. Batteries should be inserted in the battery compartment with the "+" and "-" sides facing correctly.

**NOTE:**

1. Upon loading new batteries, users will need to reset their Basic Settings
2. Do not open the battery/SD card door or remove the batteries when the camera is in its ON status. Only remove the batteries and SD card when the camera is not in use, or in its OFF status.
3. If you do not plan on using the camera for a long period of time, please remove the batteries and SD card.

## Basic Settings

Turning the mode dial to the Setup Mode , a " welcome image " will appear on the LCD display. Please proceed with the following settings:

1. To set desired language from "Language" option of 16 setting options.
2. Find "Date and Time" option the same menu for date and time adjustment.

## Formatting the Internal Memory / SD Card

To take more pictures effectively, format the content of the Internal Memory/SD card. To format SD card, please insert your compatible SD card into SD slot. Then proceed with the following steps:

1. Turn the Mode Dial to Setup Mode.
2. Selecting "Format" function of the menu by ▲ ▼ buttons.
3. You will then be asked "Format SD Card?" on the LCD Display.
4. Press the menu/OK button to confirm and proceed with formatting.

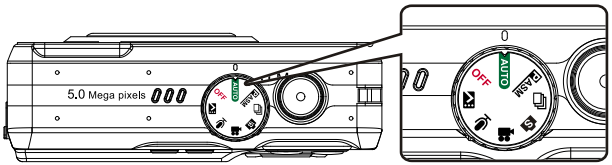
As a result, if there is no SD/MMC card in camera, the LCD display will show the following message for confirmation: "Format internal Memory?" Then, press menu/OK button to perform formatting internal memory.

# Basic Operating Procedure

This Quick Start provides simple and basic directions to get you started with your camera. From this section, you will learn how to turn the camera ON and OFF, shoot pictures, use the Auto Focus function, Zooming In and Out, and Playback your pictures.

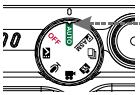
## Turning the Camera ON/OFF

Turning the mode dial to select shooting mode ( Auto, P/A/S/M, Continuous Shot, Scene, Movie, Audio) or Setup mode, then camera will be power on automatically and enter in each individual mode. To turn off camera by turning mode dial to "OFF".

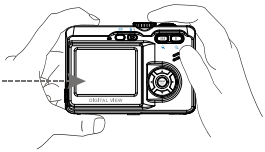



****The backside LED indicator will remain green while the cameral is power on****

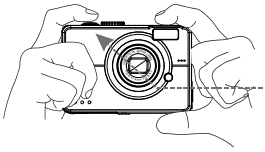
## Basic Shooting




1. Turn the mode dial to the AUTO Mode.



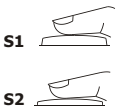
2. Look into the LCD and try to align your subject in the focus brackets.



3. When your subject had been aligned for shooting, press the Shutter button down halfway for focusing, while the subject had been focused then keep pressing the Shutter button all the way down for taking picture.

## Auto-Focus Function

When the Shutter button is pressed halfway down (S1), the Auto-Focus function will be activated and the subject will be focused automatically. Follow these steps to activate this function:




1. Before pressing down the Shuttor button, the focus brackets are white, once the Shutter button had been pressed halfway down (S1), and the subject is able to focus, the focus brackets will turn green, otherwise the focus brackets will turn red.
2. When the subject had been focused successfully, press the Shutter button all the way down (S2) to take picture.

## Zooming In/Out

This camera has 3x optical zoom and 4x digital zoom funtion, there is a zoom bar on the right side of LCD display to indicate the zoom status while pressing the Zoom button, there is a white bar in the middle of zoom bar to seperate optical zoom and digital zoom.
Press Zoom in and Zoom out button to move the lens between wide angle (1x) and telephoto (3x) positions for optical zoom; it will activate the digital zoom by still pressing the button after the lens had moved to telephoto position.
Once the subject had been aligned in LCD, press the Zoom button to select your preferred image size.

## Viewing Pictures

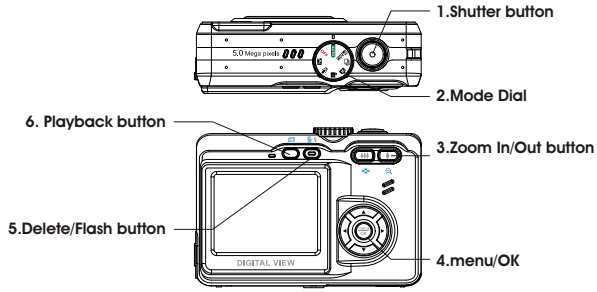
Use the Playback button to review the recently taken images, video clips or audio files, and use the ◀ ▶ buttons to scroll through them.
Press down Playback button again, the camera will return back capture mode.

For an in-depth description of Playback Mode , please refer to page 22.

## Quick Delete Picture

In Playback mode, simply press down Delete/Flash button to quick delete image, LCD will pop out a "Delete this file?" message, then press down the menu/OK button to delete file.

## Basic Function Buttons




1. **Shutter button:** Taking picture, video and audio by pressing Shutter button.

2. **Mode Dail:** The allows user to change different mode and power off camera.

3. **Zoom In/Out button :** To zoom in and out lens between wide and telephoto position to set preffered image.

Note: Digital zoom is limited for 10.0M resolution.

| Resolution | Digital Zoom |
|---|---|
| 5.0M ( 2560 x 1920) | 4x |
| 3.0M ( 2048 x 1536) | 4x |
| 2.0M ( 1600 x 1200) | 4x |
| 1.3M ( 1280 x 960) | 4x |
| VGA ( 640 x 480) | 4x |

Under Capture Mode:
Zoom in: Press Zoom in button for magnify image.
Zoom out: Press Zoom out button for narrow the image.
Under Playback mode: (Magnify / Thumbnail).
Zoom in: Press Zoom in button for magnify image.
Zoom out: Press Zoom out button for thumbnail images. (2x2/3x3).

4. **menu/OK button:** This button could enter in each mode menu for settings adjustment.

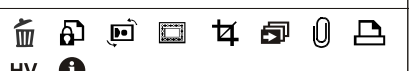
5. **Delete/Flash button:** This button sets flash as foce off, auto red eye reduction, force on and slow sync under shooting modes. In Playback Mode, a delete confirmation message will appear on LCD.

Force off: Default setting of flash mode.
Auto
Auto Red eye reduction: Press flash button once for auto red eye reduction.
Force on: Press flash button twice again for force on.
Slow sync: Press flash button again for slow sync shot.

6. **Playback button:** After pressing Playback button, user can review all the recorded files by pressing ◀ ▶ buttons. Or pressing menu/OK button for further modification.

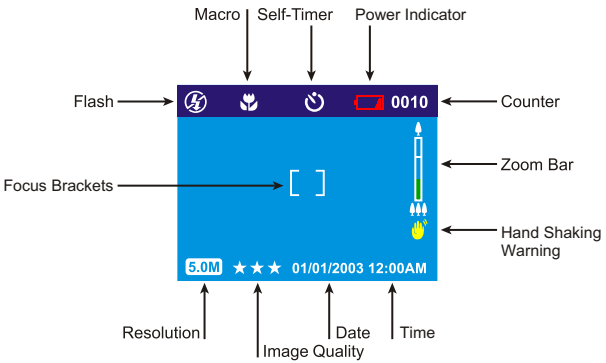
## Main Modes and Instructions

This section will describe the eight modes included in this camera. An in-depth coverage of these modes will be further described

| Items | Menu Setting Options | Page |
|---|---|---|
| Auto Mode **AUTO** | | 12 |
| PASM Mode **PASM** | | 14 |
| Continuous Shot Mode | | 17 |
| Scene Mode | | 18 |
| Movie Mode | | 20 |
| Audio Mode | | 21 |
| Playback Mode |  | 22 |
| Setup Mode | | 25 |

# Auto Mode

Point and shoot with the focus brackets. Everything will be automatically set.




Turn the Mode Dial to the Auto Mode. Press the menu/OK button to access menu. Then use ▲ ▼ button to select the setting option for change setting. Once you have selected the option, press ▶ button to display the sub-menu for all settings, and use ◀ ▶ button to scroll through them. After pressed menu/OK button for setting confirmation and quit the sub-menu. Press ▲ ▼ button to continue other setting options or press menu/OK button again to quit menu.

## Resolution

This mode allows you to set the record resolution.
3648 x 2736 (10.0M)
2560 x 1920 (5.0M)(Default)
2048 X 1536 (3.0M)
1600 x 1200 (2.0M)
1280 x 960 (1.3M)
640 x 480 (VGA)

**Image Quality**

The widely-used JPEG format is used for image-recording quality setting. Users can select from the following image quality:

★★★ Least image compression ratio (Default).

★★ Less image compression ratio.

★ Economical image compression ratio.

**Macro**

The macro function allows users to take close up picture in a distance within 10cm to 50 cm.

On

Off (Default)

**Self-timer Option**

This function provides users different timer settings: 2 seconds and 10 seconds, 2 seconds is usually applied for user to take shot without tripod to support camera steady and prevent hand shaking by pressing Shutter button.

2 sec

10 sec

Off (Default)

**Histogram Display**

Histogram Value showing the brightness and contrast of the subject. It enables precise exposure control. You can set histogram display manually.

On

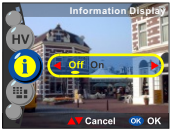
Off (Default)

**Information Display**

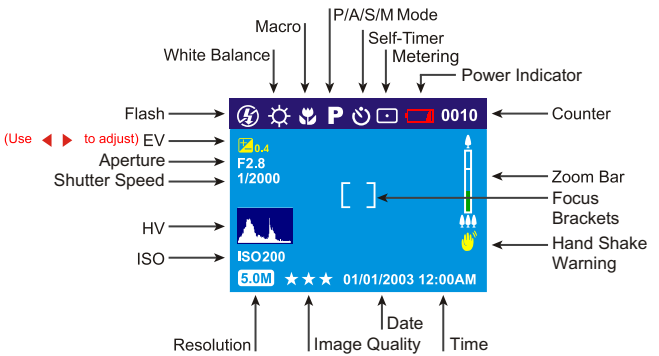
This function supports to display capture information on LCD when take pictures.

On

Off (Default)



# PASM Mode




Turn the Mode Dial to the PASM Mode. Press the menu/OK button to access menu. Then use ▲ ▼ button to select the setting option for change setting. Once you have selected the option, press ▶ button to display the sub-menu for all settings, and use ◀ ▶ button to scroll through them. After pressed menu/OK button for setting confirmation and quit the sub-menu. Press ▲ ▼ button to continue other setting options or press menu/OK button again to quit menu.

This shooting mode has more image quality settings allow user to adjust, such as Wite Balance, Digital Filter, ISO Speed, Metering, which they could provide user to take shot similar to film camera and gain more photography fun.

**P mode-**This mode allows you to take general still pictures. In this mode, the camera will automatically set the aperture and shutter speed to suit the scene's brightness.

**Aperture Priority-**In this mode, user could set the desired aperture value and the camera will automatically set the shutter speed to suit the brightness of the subject.

**Shutter Priority-**In this mode, user could set the desired shutter speed and the camera will automatically set the aperture value to suit the subject brightness.

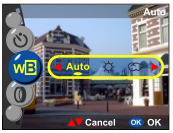
**Manual-**In this mode, could set both the shutter speed and the aperture by manual. Use ▲ button to select the aperture setting and adjust the value (F2.7/4.9) by ◀ ▶ button , use ▼ button to select shutter speed setting and adjust the value ( 1/2000 ~ 16 sec.) by ◀ ▶ button.The exposure level can be viewed on the bottom of LCD.

**Tip:** Resolution, Image quality, Macro, Self-Timer, White Balance, Digital Filter, ISO speed, Metering, Histogram Display and Infomation Display settings are available under PASM Mode.

## White Balance

Normally, the "Auto" WB setting will set the optimum white balance automatically. If natural colors cannot be obtained with auto WB, you can set the white balance manually to suit the respective light source. Users can select the following white balance:

Auto (Default)
Sun
Cloud
Tungsten
Fluorescent



## Digital Filter

This function could let user set image to have color filter effect by digital image processing instead of lens filter:
Normal/BW/Sepia/Red/Pink/Purple/Blue/Green/
Yellow/Solarize/Negative Artwork

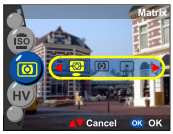
**Tip** : Solarize-This effect creates the impression that the image has been exposed to light.
Negative Artwork- Having the light and dark parts opposite to what they were in the original picture.

## ISO Speed

The ISO speed is the sensitivity to light. The higher the ISO speed number, the higher the sensitivity is to light.
Auto (Default)
50
100
200

## Metering

This calculates the best overall exposure value. The camera has three metering modes :
Matrix
Center-waighted (Default)
Spot



### Histogram Display

Histogram Value showing the brightness and contrast of the subject. It enables precise exposure control. User can set histogram display manually.

On

Off (Default)

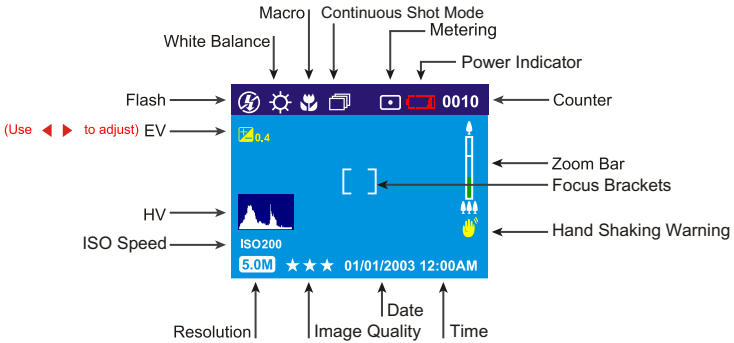
### Information Display

This function supports to display capture information on LCD when take pictures.

On

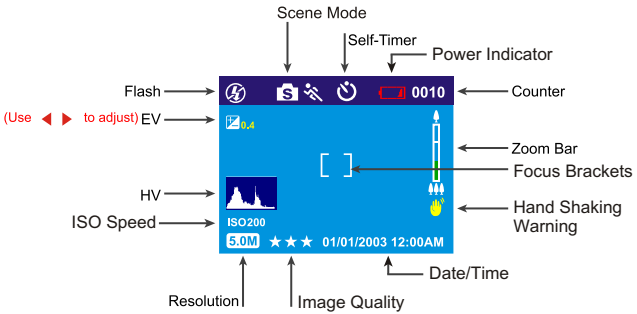
Off (Default)

## Continuous Shot Mode




The menu contents under Continuous shot Mode are as same as PASM Mode. Please refer the details and settings under PASM Mode. Please noticed that Self-Timer Option is limited under PASM Mode.

# Scene Mode




Turn the Mode Dial to the Scene Mode. Press the menu/OK button to access menu. Press ▲▼ button to select the other setting options. Once you have selected the option, press ▶ button to display the sub-menu for all settings. After pressed menu/OK button for setting confirmation and quit the sub-menu. Press ▲▼ button to continue other options or press menu/OK button again to quit menu.

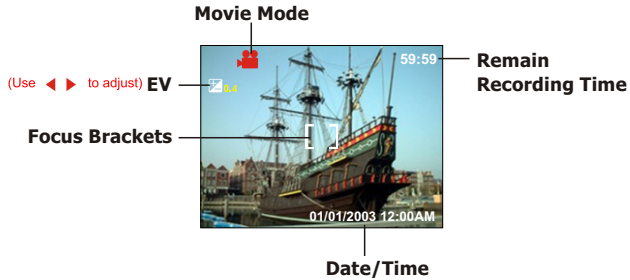
### Scene

User can select from the following scenes to include in their pictures:

Sport- This is for fast-moving subjects when you want to freeze the action.
Landscape- This is used for wide scenic views.
Night- Night view scenes.
Portrait- This mode blurs the background to focus on the portrait.
Self Portrait- It enables you to take a picture of yourself while holding the camera. Point the lens towards yourself and take a shot of half top of protrait.
Night Portrait- This mode is for images taken during twilight or at nightfor portrait. The flash illuminates the subject while a slow sync speed captures a natural exposure of the background.
Sunset- To enhance the red tone for taking sunset picture.
Beach- This is for taking beach view with enhanced blue tone.
Back Light- For taking the picture of back light object by changing metering.
Autumn- This is for autumn scenic of red maple views.
Natural- This is suitable for forest or grasslands views.
Sky- This is for sky views to enhance saturation and blue tone.
Party- It enables you to take pictures under a darker environment with different lighting.
Text- This mode will project the text by enhancement of the black and white contrast.

**Tip:** Resolution, Image quality, Self-Timer, Histogram Display and Information Display settings are available under Scene Mode. Please refer to the details from page 15.

# Movie Mode

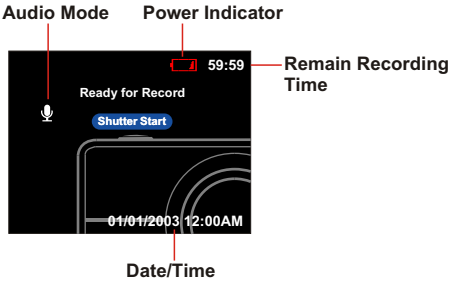



Movie Mode allows you to use the camera as a movie recorder. The length is based on the capacity of the internal memory or SD card.

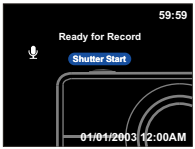
1. Turn the Mode Dial to the Movie Mode.
2. To start recording a movie, press the Shutter button. The camera will check the capacity of the memory prior record a movie. If it is full, a warning sign will display on the LCD, and will automatically exit the movie recording state.
3. If there are no warning messages, the camera will start recording. To stop recording, press the Shutter button again.
4. During movie recording, the Status LED will flash in red.

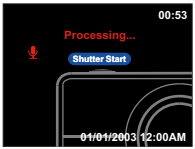
**Tip:**
1. The file format of movie will be MPEG 4. (.asf)
2. When you playback video clip in PC, system will require Windows Media Player 9.0 Codec. Please link to Microsoft Website for getting the Codec. Or you can playback the movie through bundled AP.
3. During movie recording, the zoom function is limited.

# Audio Mode




This function allows you to record audio. Turn the mode dial to the Audio Mode. Press the Shutter button to start recording, and press the Shutter button again to stop recording. During the Audio recording, the Status LED will flash in red.



# Playback Mode

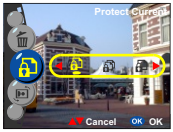
Press Playback button to enter Playback Mode. Press the menu/OK button to access menu. Then use ▲▼ button to select the setting option for change setting. Once you have selected the option, press ▶ button to display the sub-menu for all settings, and use ◀▶ button to scroll through them. After pressed menu/OK button for setting confirmation and quit the sub-menu. Press ▲▼ button to continue other setting options or press menu/OK button again to quit menu.
Following are the detial introduction of playback mode menu.

## Delete

User can delete current or all files under this :
Current
All

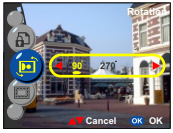
## Protection

User can prevent images from accidental erasure. This function choose to:
Protect Current
Protect All
Unprotect Current
Unprotect All



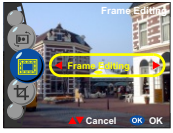

## Rotation

This function can rotate image 90° or 270° clockwise.




## Frame Editing

This camera provide different frames for quick image editing on LCD.



## Crop Picture

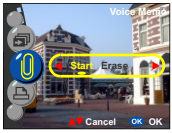
User can crop images through the desired magnified area. Press menu/OK to confirm crop function. After pressing the zoom in/out button, the image will be magnified or minified, user can use 4 way button to navigate the image. Once a desired section of the picture is selected, press menu/OK again to crop.

## Slide Show

Allow user to slide show all images. User also can set slide show interval in Setup mode.

## Voice Memo

This function provides 20 seconds voice memo for still image. Select " Voice Memo " and press menu/OK button to start the recording session. A countdown timer will indicate how much time is left in the recording session. Press menu/OK button to end the recording.




**Tip:** To playback the recorded voice memo, press ▶ for play, and use ▲ ▼ for other operation or ⮌ for entering in Playback menu.

**DPOF**

DPOF is a format used to record automatic print information from cameras. By specifying which pictures are to be printed, the pictures can be printed easily by DPOF-compatible printing service labs or on a personal DPOF-compatible printer. Users can select to print:

Current

All

Reset

HV **Histogram Display**

Allow user to review the histogram value condition of taken picture. Once enable this function, user can see the HV display on LCD.

On

Off

**Information Display**

This function supports to display recording information on LCD when review pictures.

On

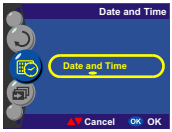
Off

# Setup Mode

Turn the Mode Dial to the Setup Mode. Press the menu/OK button to access menu. Press ▲▼ button to select the other setting options. Once you have selected the option, press ▶ button to display the sub-menu for all settings. After pressed menu/OK button for setting confirmation and quit the sub-menu. Press ▲▼ button to continue other options setting.. User will be able to set the following functions:

**Date and Time**

Reset date and time when change battery. User can change value by ▲▼ button and change setting items by ◀ ▶ button.



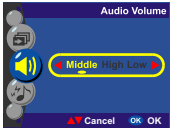

Tip: Dates can be set in these formats:
YYYY.MM.DD
MM.DD.YYYY
Time can be set in these formats:
12-hour
24-hour

**Slide Show Interval**

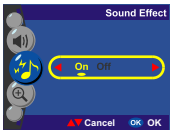
Under this setting, users can set the interval of seconds they want the slide show to proceed per slide. Users can select:
3 seconds
5 seconds
10 seconds

**Audio Volume**

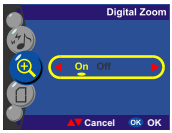
Users can adjust the audio volume of audio, video and voice memo functions:
High
Middle
Low



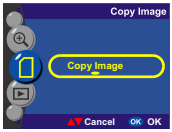
**Sound Effect**
This function allows users to turn the sound effect on or off:
On
Off



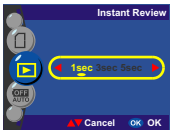

**Digital Zoom**
This camera provides up to 4x digital zoom function when take picture. User can select to enable digital zoom from this setting.
On
Off




**Copy Image**
This camera can support to copy pictures from internal memory to SD card.




**Instant Review**
Sets the time for the picture to be previewed:
1 second
3 seconds
5 seconds
Off



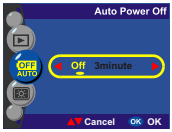
**Auto Power Off**

This setting automatically turns off the camera. Users can select the following minutes to Auto Power Off the camera.

Off

3 minutes

1 minute

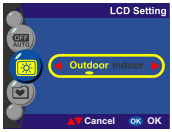



**LCD Setting**

This setting could let user to adjust LCD brightness depending on the enviornment illuminance in order to let user has more clear live view image on LCD. User can select the brightness of the LCD:

Indoor

Outdoor




**Background Editing**

Allows user to select their preferred images which are built in camera (Image 1,2) or "My Photo" as background.

Image 1

Image 2

My Photo

Editing

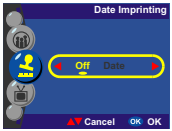
**Tip:** This background will be replaced the default images of welcome page and Setup mode background. User could use "Editing" function to choose preferred images from Internal Memory or SD card to be "My Photo", and it will will be stored in camera, eventhough the image stored in Internal Memory or SD card had been deleted by user, "My Photo" still keeps the image.

**Language**

Users can select from the following languages:
English
German
French
Spanish
Italian
Traditional Chinese
Simplified Chinese
Japanese
Korean

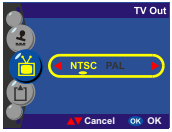
**Date Imprinting**

This function is used for stamp the date on the picture. User can select following settings:
Date
Off



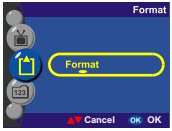

**TV out**

Depending on where your location, different region requires different system for "TV Out" function. Connect Video cable for TV out.
NTSC
PAL




**Format**

Formats the internal or external memory. Press OK button to confirm or ▲▼ button to escape formatting.

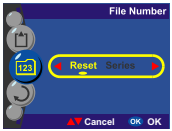


**File Number**

The image count will restore to zero once the pictures in memory been erased under File Number reset condition. Sets the order of pictures stored in the camera:

Reset- File number counting from zero

Series- File number counting from series.




**Restoring**

Resets the camera to factory setting.

# Making Connections

In this section you will be able to connect the camera to your PC to download or edit photos.

## Installing Software

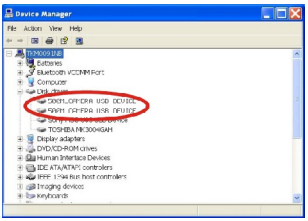
1. Insert the CD-ROM into your CD-ROM drive.
2. Click "Digital Camera Driver" and Install if your operating system is Windows 98. Users can pick 5 selections and press Install (it can all be done at the same time).
3. The installation wizard will guide you through the installation.
4. You will be able to use the application once it's installed.

**Caution:**

1. Driver is for uploading pictures to you computer, if the operation system is Win 98
2. If you didn't install the driver before plugging in the USB device. System will detect new device. Please insert the CD-ROM and complete the driver installation.

# Connecting through the USB

This section will show you how to download images from camera to PC through the USB cable..




1. This camera allows users to move the images or movies from camera to PC by MSDC support.
2. When the camera is connected to your PC, there will be one external storage under "My computer" named " 500_CAMERA ".
3. Simply click the folder named 500D-CAM, you can find the recorded files.
4. Copy or remove these files to from camera to your PC. You can start to edit the images according to your desired

**NOTE:**

1. Voice memo files will include three different file format as ".jpg", ".wav" and ".html". Which have the same file name, but format. The recommended format for users (desiring to include their recorded voice memo in their selected pictures) is HTML.

# Connecting through TV-out

Before you proceed, please determine your corresponding TV-Out mode. This camera will enable you to achieve full camera functions by TV-out connection. User can enable each function through the TV monitor instead of the LCD display.

1. Connect the video cable into the video out connector.
2. Connect the other end of the video cable into the TV s video-in jack.
3. Turn the camera ON, you should then be able to operate the camera with TV screen. (The LCD will turn off while connected to TV-out)

# Appendix

Camera Default Setting

| Setting matrix | Default setting |
|---|---|
| Resolution | 5M (2560x1920) |
| Image quality | Best |
| Macro | Off |
| Self-Timer | Off |
| P/A/S/M | P mode |
| White Balance | Auto |
| Digital Filter | Color |
| ISO | Auto |
| Metering | Matrix |
| Histogram Display | Off |
| Information Display | On |
| Scene | Sport |
| Date and Time | 2004.01.01 |
| Slide Show Interval | 3 sec. |
| Audio Valume | Middle |

| | |
|---|---|
| **Sound Effect** | **On** |
| **Digital Zoom** | **On** |
| **Instant Preview** | **1 sec** |
| **Auto power off** | **1 minute** |
| **LCD Setting** | **Outdoor** |
| **Background Editing** | **Image 1** |
| **Languages** | **English** |
| **File Number** | **Series** |

# LED Status

| LED status | Status LED | AF Assist/ Self-Timer LED | Description |
|---|---|---|---|
| Power off | Off | Off | Camera off. |
| Power On | GREEN | Off | Camera on status. |
| Flash charging | Flickering RED | Off | When the flash is charging, "Red" LED will flicker (2 flickers / s), then turn to "Green" when the flash had charged completely. |
| Image saving | Flickering GREEN | Off | "Green" LED will flicker during image saving. |
| Battery low | Flickering Orange | Off | Camera is going to run out of battery power. |
| Self-timer | GREEN | Flickering RED | Self-Timer LED will flicker together with beep according to countdown tempo in first 7 sec. then 2 flickers/ per sec. at last 3 sec. ; If Self-Timer is set to 3 sec., flicker will keep 1 flicker/ per sec.till last. |
| AF Assist | GREEN | RED | When subject illumination is too deem for taking shot. |
| Out of focus | ORANGE | Off | While focus failed, "Orange" LED will be on, it will change to "Green" when user release Shuttor button. |
| Movie/Audio recording | Slow flickering RED | Off | When recording movie/audio, the "Red" LED will flicker slowly (1 flicker/per secretary.) according to "REC" logo. |

## Information Code

| Error | Possible Cause | Corrective Action |
|---|---|---|
| Card Full | No more pictures can be stored | Remove the pictures or insert another card |
| Write-Protect | Card has been protected | To remove write-protect latch of card |
| Card Error | Cannot record, playback or erase pictures on this card | To format this card or replace another card |
| Picture Error | This recorded picture cannot be playback with camera | To view the image through PC. If it canonot be done, the picture is damaged |
| No picture in SD Card/internal memory | There no image in storage, so there nothing in playback | To take pictures or insert another card with images |
| Card Setup | This card is not formatted | To format this card before using |
| Battery Empty | Battery low for taking pictures | Installing new or charged batteries |
| No Card | No card for "copy image" from internal Memory. | To insert a SD/MMC Card in cameraaq. |

# Specifications

| Features | Content |
|---|---|
| Sensor Photosites | 5.36 MegaPixels |
| Sensor Size | 1/2.5" |
| Sensor Type | CCD |
| Maximum Image Resolution | 3648 x 2736 (Interpolated) |
| Still Image Size | 3648 x 2736 2560 x 1920<br>2048 x 1536 1600 x 1200<br>1280 x 960 640 x 480 |
| Video Clip | 320x240 @ 30 fps |
| Build-in Microphone | Yes |
| Build-in Speaker | Yes |
| Build-in Memory | 16 MB NAND Flash Memory |
| Storage Types | Secure Digital (SD) Card or |
| | MultiMedia Card (MMC) |
| Optical Zoom | 3X |
| Digital Zoom | 4X |
| Focus Length | f = 5.8 ~ 17.4 mm |

| | |
|---|---|
| Aperture Range | F = 2.9 ~ 4.7 |
| Shutter Speed | 16 ~ 1/2000 sec |
| Focus Mode | TTL Contrast Detection |
| Normal Focus Range | 50 cm ~ ∞ |
| Macro Focus Range | 10 cm~50cm |
| Voice Memo | 20 seconds voice memo |
| Audio Record | WAV |
| Sound Effect | Yes |
| Flash Manual Setting | Force / Auto / Auto Redeye Reduction / Slow / Off |
| Flash Range | 1.0 ~ 3.0 M |
| Self-Timer | 2/10 seconds delay |
| Continuous shot | Yes |
| Compressed File Format | JPEG EXIF 2.2 ( DPOF support) |
| Video Clip Format | MPEG-4 |
| LCD Display | 2.0" LTPS TFT , 640 x 240 |
| Multiple Language OSD* | E / F / G / I / S / J / K / TC/SC |
| Playback Zoom | Up to 8x |
| Video Out | TV out with video & audio |
| PC Interface | USB 2.0 Full Speed |

| | |
|---|---|
| Power Source | 2AA alkaline, Ni-MH, |
| | Ni-Cd and CR-V3 Lithium-ion |
| Body Material | Metal |
| Tripod Mount | Yes |
| Dimensions | 90 x 61 x 26 mm |
| Weight (Batteries Excluded) | 140g |
| Supported O/S | Microsoft Windows 98SE, ME, |
| | 2000, XP, Mac OS 9.1 |
| Bundled software | Ulead Photo Explore 8.0 SE |
| | Ulead Video Studio 7.0 SE |
| | Ulead cool 360 |